

Abstract of the Disclosure

A method of screening a candidate compound for susceptibility to biliary excretion. The method includes the steps of providing a culture of hepatocytes, the culture having at least one bile canaliculus; exposing a candidate compound to the culture; and determining an amount of candidate compound in the at least one bile canaliculus, the amount of candidate compound in the at least one bile canaliculus indicating the susceptibility of the candidate compound to biliary excretion. Optionally, the culture of hepatocytes is a long-term culture in a sandwich configuration. The method is particularly applicable to the screening of multiple candidate compounds in a single effort.